

DECISION SHEET

Standard(s)- (year and edition): IEC 60601-1:1988 Ed.2 Am1+Am2	Sub clause(s): 17 a) and 17 g)	Sheet n°: DSH-399
Subject: Component impedance	Key words: Component impedance, high integrity	Confirmed by CTL at its 39th meeting, in Cologne
<p>Question:</p> <p>Component impedance is generally unreliable. Components certified to IEC 60384-14 etc. can be considered of high integrity. Is the impedance of a component sufficient? Does investigation of the product require further review of AIR CLEARANCE and CREEPAGE DISTANCE for such a component? Does this sub-clause mean that further component review is not required?</p> <p>Decision:</p> <p>Secondary circuits providing protective means after short-circuiting of inadequate AIR CLEARANCE and CREEPAGE DISTANCE must be investigated. Failure of components in these circuits shall be investigated as a SINGLE FAULT CONDITION</p> <p>Explanatory notes:</p> <p>Sub-clause 52.5.9 requires that failure of components shall be investigated and especially those components which provide protective means. Exempted are capacitors (X1 and X2) complying with IEC 60384-14 connected between parts of opposite polarity of the supply mains. The short-circuit of inadequate AIR CLEARANCE and CREEPAGE DISTANCE is a NORMAL CONDITION.</p>		